

GP MINI-LAB

CHEMICAL CONCENTRATION ANALYSIS
FOR ACID SOLAR CELL LINES



CONSULTING



CELL TECH



MODULE TECH



INSPECT



SITUATION

The GP MINI-LAB system is a customised, robust instrument equipped with the latest controlling- and database system METROHM tiamo®.

The GP MINI-LAB offers a wide range of measurements for use in acid solar cell lines.

DESCRIPTION

The analysis of a sample with the GP MINI-LAB is straight forward: A sample is dosed with a pipette into the beaker in the GP MINI-LAB. Then the measurement method gets started by the user and the analysis is done automatically. The GP MINI-LAB can analyze the acid texture bath (HF, HNO₃, Si), HF/HCl bath, HF bath, and KOH bath. The different chemical components of a sample are measured by acid-base-titration. The complete solution of the GP MINI-LAB comprises hardware, analytical methods, installation and training of staff on site.

ADVANTAGES

- › Increase of cell performance and bath lifetime
- › Easy process control
- › Complete analytical solution and support
- › No calibration needed
- › Measurement of various baths in one device

TOPIC	DESCRIPTION
Measured chemicals	HF / HNO ₃ / Si KOH, HF; HCl HF / HCl Further chemicals on request
Measurement range	HF: 0 – 150 g/l HNO ₃ : 0 – 500 g/l Si: 0 – 50 g/l HCl: 0 – 150 g/l KOH: 0 – 100 g/l
Accuracy	5 %, rel.
Dimensions H x W x D	450 x 450 x 290 mm
Instrument protection	IP 54
Safety	EN/IEC/UL 61010-1 CSA-C22.2 No. 61010-1 protection class I
Order Information/ Article Number	05.10.2022

Note: Technical details subject to change without prior notice. Only technical specifications in quotations and duty books are binding.



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